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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/462,911 02/15/2000		XAVIER ROUAU	54321.000013	5645
7590 01/14/2004 HUNTON & WILLIAMS 1900 K STREET NW SUITE 1200 WASHINGTON, DC 20006-1109			EXAMINER	
			MELLER, MICHAEL V	
			ART UNIT	PAPER NUMBER
			1654	

DATE MAILED: 01/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ani	olication No.	Applicant(s)			
Office Action Summary			462,911	ROUAU ET AL.			
	emos neuen cammary		miner	Art Unit			
	The MAILING DATE of this commu		hael V. Meller	1654			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - External form of the second of the s	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN asions of time may be available under the provision. SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (i period for reply is specified above, the maximum s re to reply within the set or extended period for reply eply received by the Office later than three months ad patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). munication. 30) days, a reply within tatutory period will appl y will, by statute, cause	In no event, however, may a reply be the statutory minimum of thirty (30) di y and will expire SIX (6) MONTHS fro the application to become ABANDON	timely filed ays will be considered timely. If the mailing date of this communication. IFD (35 U.S.C. & 133)			
Status —							
1)⊠	Responsive to communication(s) filed on <u>16 October 2003</u> .						
,	a) This action is FINAL . 2b) ⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims						
4)🖂	Di⊠ Claim(s) <u>24-53</u> is/are pending in the application.						
	4a) Of the above claim(s) 24-27,30,31,38,39 and 44-52 is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6) Claim(s) <u>28,29,32-37,40-43 and 53</u> is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restric	ction and/or elec	tion requirement.				
Applicati	on Papers						
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 							
* See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
 a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first contains of the appeliance of the appelia							
reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment	(s)						
2) D Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (P ation Disclosure Statement(s) (PTO-1449) Pa			r (PTO-413) Paper No(s) Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03)

DETAILED ACTION

Election/Restrictions

The restriction of record is maintained for the reasons of record. Applicant's election of group III is noted and the election was made FINAL in the previous office action. Applicant traversed the restriction saying that since lactose was not a galactose oligomer that there is a special technical feature but that is not the case as is evident from the rejections which follow. As stated in applicant's response dated 5/6/2003, applicant elected galactose oxidase and 1) galactose oligomer, 2) galactose oligomer and galactanase or 3) galactanase.

Thus, claims 24-27, 30,31, 38, 39 and 44-52 are withdrawn from further consideration as being drawn to non-elected subject matter.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 28, 29, 32-37, 40-43, 53 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a galactanase, does not reasonably provide enablement for any and all enzymes which is capable of converting a compound into a substrate for the galactose oxidase. The specification does not

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enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims.

The specification as filed, is enabled for a galactanase, but is not enabled for any and all enzymes which are capable of converting a compound into a substrate for the galactose oxidase.

The art of biotechnology is a highly unpredictable art and it would be an undue burden for one of ordinary skill in the art to test any and all enzymes to see if they possess the claimed function of the enzyme. The specification does teach that galactanase can perform this action but how can one of ordinary skill in the art test any and all enzymes to see if they could perform this action. The Patent office simply does not have the facilities to test such an enzyme.

Applicant has only shown in their specification one type of enzyme, namely glactanase. With only knowing this one enzyme it is clear that such broad claims are not enabled by the instant specification when one of ordinary skill in the art is only given one particular enzyme and expected to figure out which other enzymes are capable of converting a compound into a substrate for the galactose oxidase.

What compound? What kind of compound? Is it in with the galactose oxidase, where is it? What conditions are required to do this? What kind of enzyme is this, a protease, hydrolase, metalloproteinase?

These questions are ones that one of ordinary skill in the art would not be able to answer and thus could not figure out what enzymes fall within this claim.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 28, 29, 32-37, 40-43, 53 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase, "an enzyme which is capable of converting a compound into a substrate for the galactose oxidase" is confusing. What compound ? What kind of compound ? Is it in with the galactose oxidase, where is it ? What conditions are required to do this ? What kind of enzyme is this, a protease, hydrolase, metalloproteinase ?

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 28, 29, 32-37, 40-43, 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beggs et al. (col. 5), Goers et al. '840 (col. 19), or Goers et al. '973

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(col. 21) in view of WO 93/25239 (page 6), Jung et al. (abstract), Aoda et al. (col. 3), Wirth et al. (abstract), Morishita et al. (col. 11), or Baichwal et al. (col. 1).

Beggs et al. (col. 5), Goers et al. '840 (col. 19), or Goers et al. '973 (col. 21) each teach that galactose oxidase is known to be used in pharmaceutical compositions.

WO 93/25239 (page 6), Jung et al. (abstract), Aoda et al. (col. 3), Wirth et al. (abstract), Morishita et al. (col. 11), or Baichwal et al. (col. 1) teach that glactans are known in the art to be used in pharmaceutical compositions.

It is well known that it is *prima facie* obvious to combine two or more ingredients each of which is taught by the prior art to be useful for the same purpose in order to form a third composition which is useful for the same purpose. The idea for combining them flows logically from their having been used individually in the prior art. *In re Sussman,* 1943 C.D. 518; *In re Pinten,* 459 F.2d 1053, 173 USPQ 801 (CCPA 1972); *In re Susi,* 58 CCPA 1074, 1079-80; 440 F.2d 442, 445; 169 USPQ 423, 426 (1971); *In re Crockett,* 47 CCPA 1018, 1020-21; 279 F.2d 274, 276-277; 126 USPQ 186, 188 (1960).

Thus, the invention is obvious since the two components are both known in the art to be used for the same purpose, namely pharmaceutical purposes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Meller whose telephone number is 703-308-4230. The examiner can normally be reached on Monday thru Friday: 9:00am-5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on 703-306-3220. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Michael V. Meller Primary Examiner Art Unit 1654

MVM